

TX-4566W400FC120-NUVENG-A01

PRODUCT SPECIFICATION

Features:

- ◆Excellent transiting heat from LED chip operating under 9A.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

Chip Material:

- ◆GaN

Emitting Color:

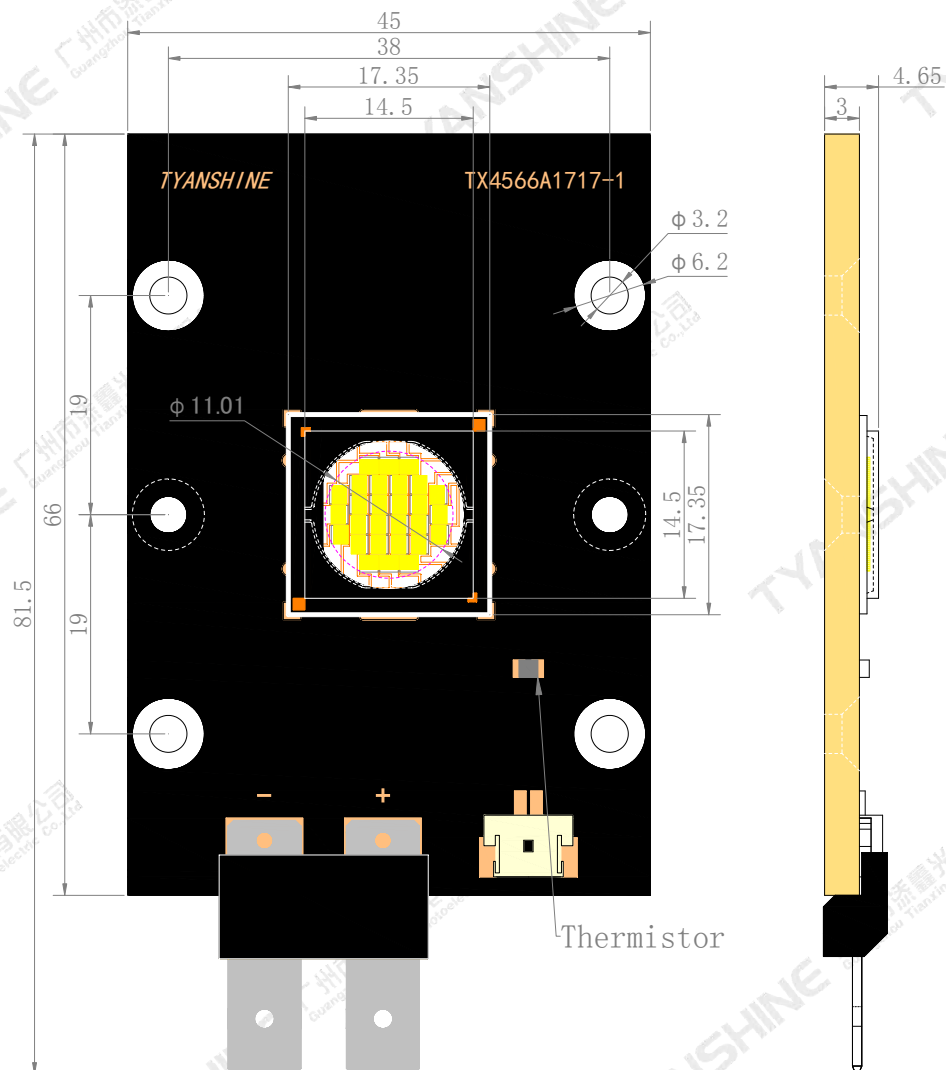
- ◆White

Applications:

- ◆Stage lighting
- ◆Landscape Lighting

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Package Dimensions:



Notes:

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are ± 0.1 mm .

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Absolute Maximum Ratings (Tc=25℃)

Parameter	Symbol	Ratings	Unit
Forward Current	IF	9.5	A
Reverse Voltage	VR	Not designed for reverse operation	V
Power Dissipation	PD	418	W
Junction Temperature	Tj	150	℃
Electrostatic Discharge Threshold (ESD)	ESD	2000	V
Storage Temperature	Tstg	-20~+70	℃
Operation Temperature	Topr	-30~+100	

Notes:

1.Specifications are subject to change without notice.

2.The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.

3.Precautions for ESD:

STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded.

Electrical Optical Characteristics

Parameter	Symbol	Condition	Min.	Typ.	Max.	Units
Luminous Flux	Φ_v	If=7A , Tc=25℃	27500	29000	30500	lm
		If=7A , Tc=85℃	20500	21800	23000	
Forward Voltage	V_f	If=7A , Tc=25℃	42	44	46	V
		If=7A , Tc=85℃	40.5	42.5	45	
Correlated Colour Temperature	CCT	If=7A , Tc=25℃	7000	—	8500	K
		If=7A , Tc=85℃	7700	—	9350	
Color Rendering Index	Ra	—	—	—	—	—
Viewing Angle at 50 % IV	$2\theta_{1/2}$	—	—	115	—	Deg
Reverse Current	I_R	—	—	—	—	μA
Thermal Resistance Junction to Case	$R\theta_{J-C}$	If=7A	—	0.14	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$	If=7A	—	-25	—	mV/℃
Thermistor(NTC)	Rt25	—	—	10	—	K Ω

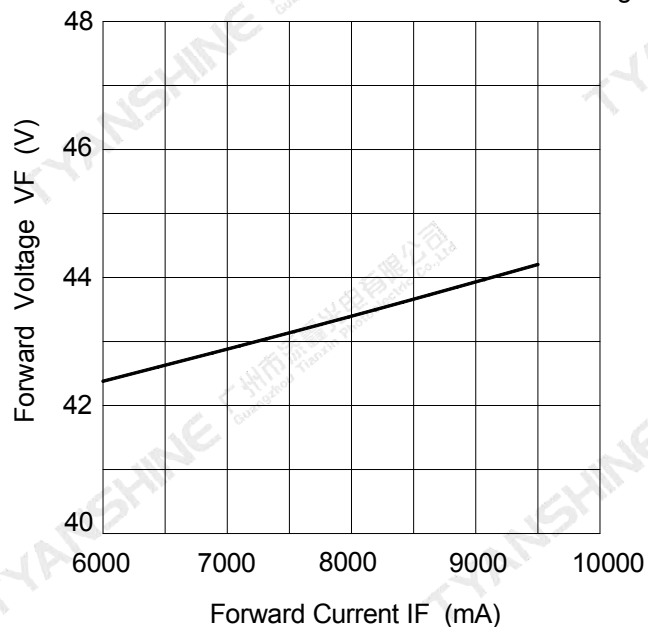
Notes:

- 1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3.Luminous flux measurement tolerance:±15%.
- 4.Forward voltage measurement tolerance:±0.15V.

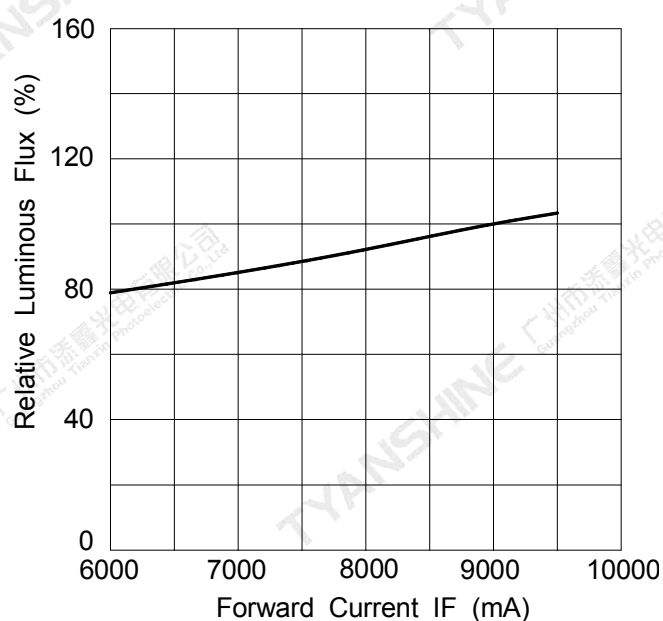
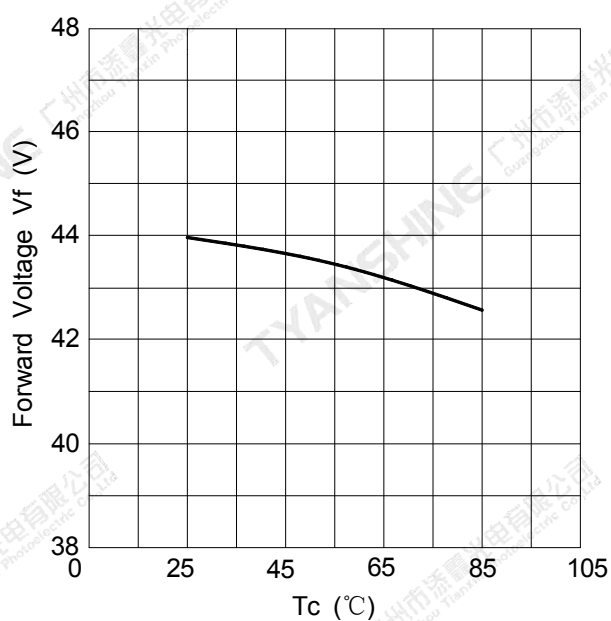
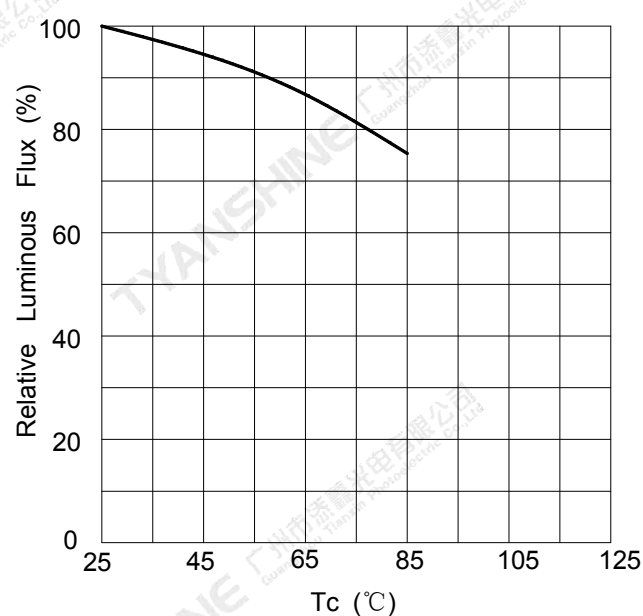
Typical Electrical/Optical Characteristics Curves

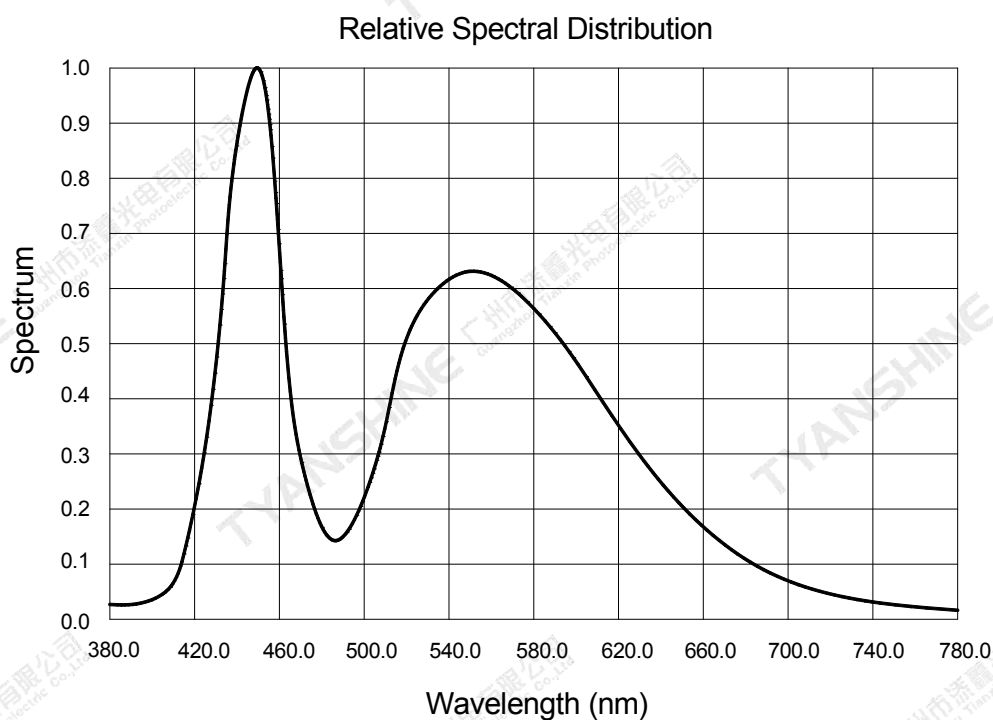
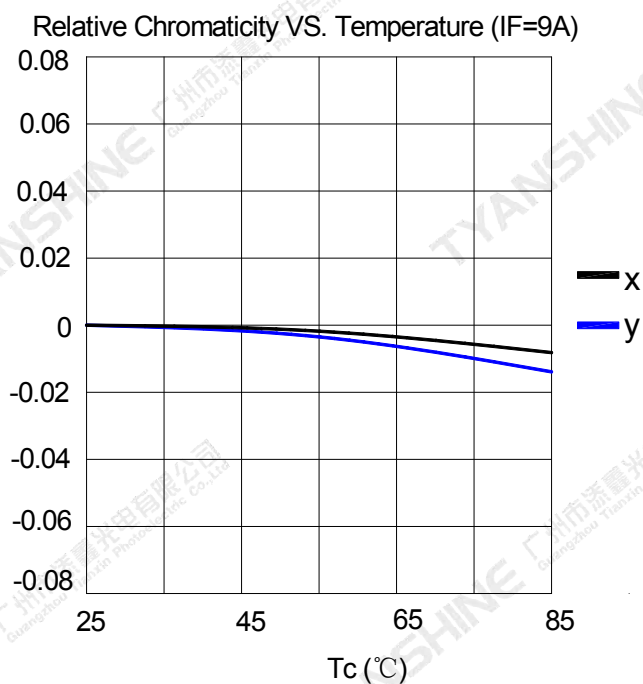
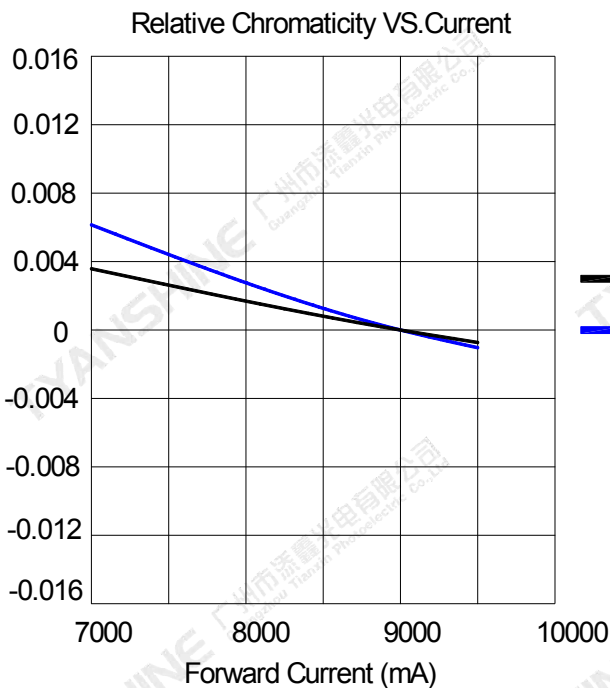
(25°C Ambient Temperature Unless Otherwise Noted)

Forward Current VS. Relative Forward Voltage



Forward Current VS. Relative Luminous Flux

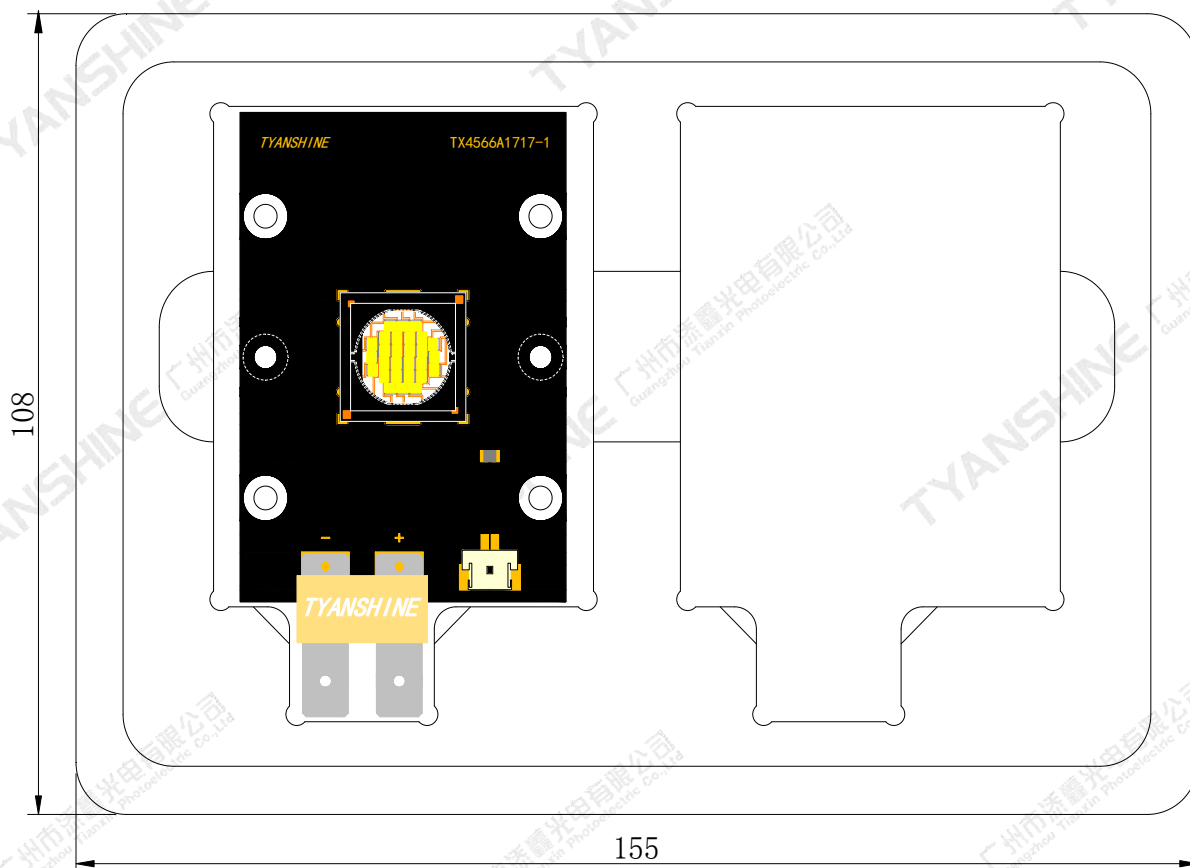
Temperature VS. Forward Voltage V_f ($I_F=9A$)Temperature VS. Relative Luminous Flux ($I_F=9A$)

**Notes:**

1. $2\theta_{1/2}$ is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is $\pm 5^\circ$.

Dimensions For Cannulation And Packaging

Quantity:2 PCS



Notes:

1. All dimensions are in millimeters.
2. Tolerances are ± 2.0 mm unless otherwise noted.
3. The products are packaged together with silica gel, Transport, not to the weight of welding LED light-emitting area, As a result of the weight of LED light-emitting zone in the quality of, Irresponsible of the Company.